

```
PS C:\Program Files\ Docker\ Docker> docker run --rm -d --name apache -p 80:80 httpd:2.4
Unable to find image 'httpd:2.4' locally
2.4: Pulling from library/httpd
59692152171a: Pull complete
7284b4e0cc7b: Pull complete
3678b2d55ccd: Pull complete
aeb67982a725: Pull complete
06954f8169fd: Pull complete
Digest: sha256:48bae0ac5d0d75168f1c1282c0eb21b43302cb1b5c5dc9fa3b4a758ccfb36fe9
Status: Downloaded newer image for httpd:2.4
fbb2971580ab81354c6c3b58e016bbb0d2a3f875a127f47b2904207a594d3b44
```

1. Run Apache HTTPD server

```
PS C:\Program Files\ Docker\ Docker> curl localhost -UseBasicParsing

StatusCode      : 200
StatusDescription : OK
Content         : <html><body><h1>It works!</h1></body></html>

RawContent      : HTTP/1.1 200 OK
                  Keep-Alive: timeout=5, max=100
                  Connection: Keep-Alive
                  Accept-Ranges: bytes
                  Content-Length: 45
                  Content-Type: text/html
                  Date: Fri, 18 Jun 2021 16:00:15 GMT
                  ETag: "2d-432a5e4a73a80..."

Forms           : 
Headers         : {[Keep-Alive, timeout=5, max=100], [Connection, Keep-Alive],
                  [Accept-Ranges, bytes], [Content-Length, 45]...}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : 
RawContentLength : 45
```

2. Query webserver for default page

```
PS C:\Users\brent\Documents\197\ME8_Containerization_and_Docker\5-volumes> docker cp index.html apache:/usr/local/apache2/htdocs/
PS C:\Users\brent\Documents\197\ME8_Containerization_and_Docker\5-volumes> curl localhost -UseBasicParsing

StatusCode      : 200
StatusDescription : OK
Content         : <html><body><h1>It works in Docker!</h1></body></html>

RawContent      : HTTP/1.1 200 OK
                  Keep-Alive: timeout=5, max=100
                  Connection: Keep-Alive
                  Accept-Ranges: bytes
                  Content-Length: 56
                  Content-Type: text/html
                  Date: Fri, 18 Jun 2021 16:24:24 GMT
                  ETag: "38-5c4cf1a3c7f40..."

Forms           : 
Headers         : {[Keep-Alive, timeout=5, max=100], [Connection, Keep-Alive], [Accept-Ranges, bytes], [Content-Length, 56]...}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : 
RawContentLength : 56
```

3. Docker cp command

```
PS C:\Users\brent\Documents\197\ME8_Containerization_and_Docker\5-volumes> docker stop apache
apache
PS C:\Users\brent\Documents\197\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache -p 80:80 httpd:2.4
86096d50653b27a1c37e7620f2331b3b6c48d0a082edb176be76640dedd4814e
PS C:\Users\brent\Documents\197\ME8_Containerization_and_Docker\5-volumes> curl localhost
curl : The response content cannot be parsed because the Internet Explorer engine is not
available, or Internet Explorer's first-launch configuration is not complete. Specify the
UseBasicParsing parameter and try again.
At line:1 char:1
+ curl localhost
+ ~~~~~
+ CategoryInfo          : NotImplemented: (:) [Invoke-WebRequest], NotSupportedException
+ FullyQualifiedErrorId : WebCmdletIEDomNotSupportedException,Microsoft.PowerShell.Comma
nds.InvokeWebRequestCommand
```

```
PS C:\Users\brent\Documents\197\ME8_Containerization_and_Docker\5-volumes> curl localhost -UseBasicParsing
```

```
StatusCode      : 200
StatusDescription : OK
Content          : <html><body><h1>It works!</h1></body></html>

RawContent      : HTTP/1.1 200 OK
                  Accept-Ranges: bytes
                  Content-Length: 45
                  Content-Type: text/html
                  Date: Fri, 18 Jun 2021 16:25:57 GMT
                  ETag: "2d-432a5e4a73a80"
                  Last-Modified: Mon, 11 Jun 2007 18:53:14 GMT
                  Server: ...

Forms           : 
Headers         : {[Accept-Ranges, bytes], [Content-Length, 45], [Content-Type,
                  text/html], [Date, Fri, 18 Jun 2021 16:25:57 GMT]...}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : 
RawContentLength : 45
```

```
PS C:\Users\brent\Documents\197\ME8_Containerization_and_Docker\5-volumes> docker stop apache
apache
PS C:\Users\brent\Documents\197\ME8_Containerization_and_Docker\5-volumes> docker run --rm -d --name apache -p 80:80 -v httpdhtdocs:/usr/local/apache2/htdocs/ httpd:2.4
1860f98236a11890e97f8be1fa2ed07e3180cbe9a734cab3918c90fe78d6e9
PS C:\Users\brent\Documents\197\ME8_Containerization_and_Docker\5-volumes> docker cp index.html apache:/usr/local/apache2/htdocs/
PS C:\Users\brent\Documents\197\ME8_Containerization_and_Docker\5-volumes> curl localhost -UseBasicParsing

StatusCode      : 200
StatusDescription : OK
Content          : <html><body><h1>It works in Docker!</h1></body></html>

RawContent      : HTTP/1.1 200 OK
                  Keep-Alive: timeout=5, max=100
                  Connection: Keep-Alive
                  Accept-Ranges: bytes
                  Content-Length: 56
                  Content-Type: text/html
                  Date: Fri, 18 Jun 2021 16:29:34 GMT
                  ETag: "58-5c4cf1a3c7f40..."

Forms           : 
Headers         : {[Keep-Alive, timeout=5, max=100], [Connection, Keep-Alive], [Accept-Ranges, bytes], [Content-Length, 56]...}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : 
RawContentLength : 56
```